

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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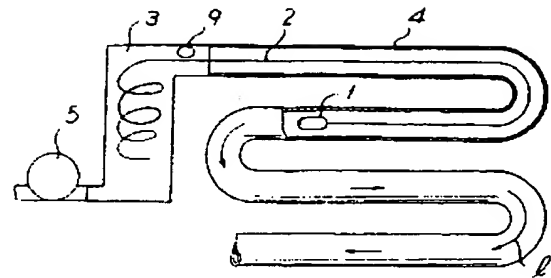
APPLICATION DATE : 13-06-84  
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APPLICANT : MITSUBISHI HEAVY IND LTD;

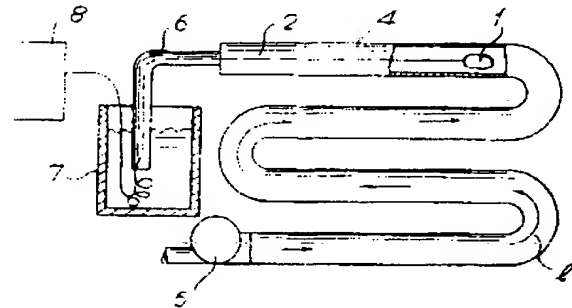
INVENTOR : SAKAMOTO HIDENORI;

INT.CL. : G01N 29/04

TITLE : ULTRASONIC FLAW INSPECTION FOR PIPE



(1)



(2)

ABSTRACT : PURPOSE: To enable detection of flaws over the entire length of a pipe to be measured, by inserting a cable having a probe connected thereto for detecting flaws on the inner wall of the pipe being measured into the pipe to the specified position utilizing a fluid to detect flaws.

CONSTITUTION: A cable 2 having a probe 1 connected to one end thereof is previously held into a cable housing device 3 whose one end is connected to the end of a heat exchanger tube 4 while the other end thereof is connected to a pump 5. The cable 2 is inserted into the heat exchanger tube 4 under a high pressure utilizing a fluid (I) such as water fed from the pump 5. When a cable insertion counter 9 detects that the probe 1 is inserted into the heat exchanger tube 4 to the specified position, the fluid (I) is stopped and the cable housing device 5 is disconnected from the end of the heat exchanger tube 4. Then, the other end of the cable 2 is connected to an ultrasonic flaw detector 8 while the other end of the heat exchanger tube 4 to the pump 5 to reverse the fluid (I) whereby flaws on the wall of the heat exchanger tube 4 is detected according to a signal transmitted from the flaw detector 8.

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